

IN THE CLAIMS:

Please amend the claims as follows:

Claims 1 to 88 (Cancelled)

89. (New) A method of a system handling an event message, comprising:
producing at least one event message;
storing said event message in a persistent memory in said system until said event message is handled; and

deleting said event message from said persistent memory after said event message is handled by said system;

wherein when said system is recovering from a system crash or error, said persistent memory is an initialization memory where said message is stored until said system recovers from said system crash or error.

90. (New) A method as in claim 89, wherein said event message indicates an occurrence of a special event for said system.

91. (New) A method as in claim 90, wherein said special event is said system crash or error.

92. (New) A method as in claim 89, further comprising the step of handling said event message by delivering said event message to an intended recipient.

93. (New) A method as in claim 92, wherein said event message is delivered to said intended recipient through a multiplexing recipient.

94. (New) A method as in claim 93, wherein said multiplexing recipient further performs the steps of:

storing said event message in said multiplexing recipient's persistent memory until said event message is handled by said multiplexing recipient; and
deleting said event message from said multiplexing recipient's persistent memory after said event message is handled by said multiplexing recipient.

95. (New) A method as in claim 92, wherein said intended recipient sends a confirmation to said system after delivery of said event message to said intended recipient.

96. (New) A method as in claim 89, wherein storing said event message in said persistent memory further comprises storing said event message in an event indication queue, said event indication queue having resources pre-allocated before occurrence of an event associated with said event message.

97. (New) A method as in claim 96, wherein said event indication queue is reliable even when said event message indicates that allocation of new resources is unstable.

98. (New) A system comprising:

an event message producer;

a persistent memory in which at least one event message from said event message producer is stored until said system handles said event message; and

an event message distributor that handles said event message;

wherein said event message is deleted from said persistent memory after said event message is handled by said system; and

wherein when said system is recovering from a system crash or error, said persistent memory is an initialization memory where said message is stored until said system recovers from said system crash or error.

99. (New) A system as in claim 98, wherein said event message indicates an occurrence of a special event for said system.

100. (New) A system as in claim 99, wherein said special event is said system crash or error.

101. (New) A system as in claim 98, wherein said event message distributor delivers said event message to an intended recipient.

102. (New) A system as in claim 101, wherein said event message is delivered to said intended recipient through a multiplexing recipient.

103. (New) A system as in claim 102, wherein said multiplexing recipient performs the steps of:

storing said event message in said multiplexing recipient's persistent memory until said event message is handled by said multiplexing recipient; and
deleting said event message from said multiplexing recipient's persistent memory after said event message is handled by said multiplexing recipient.

104. (New) A system as in claim 101, wherein said intended recipient sends a confirmation to said system after delivery of said event message to said intended recipient.

105. (New) A system as in claim 98, wherein said persistent memory further comprises an event indication queue, said event indication queue having resources pre-allocated before occurrence of an event associated with said event message.

106. (New) A system as in claim 105, wherein said event indication queue is reliable even when said event message indicates that allocation of new resources is unstable.

107. (New) A memory storing instructions executable by a system, said instructions comprising:

producing at least one event message;

storing said event message in a persistent memory in said system until said event message is handled; and

deleting said event message from said persistent memory after said event message is handled by said system;

wherein when said system is recovering from a system crash or error, said persistent memory is an initialization memory where said message is stored until said system recovers from said system crash or error.

108. (New) A memory as in claim 107, wherein said event message indicates an occurrence of a special event for said system.

109. (New) A memory as in claim 108, wherein said special event is said system crash or error.

110. (New) A memory as in claim 107, wherein said instructions further capable of being interpreted to indicate handling said event message by delivering said event message to an intended recipient.

111. (New) A memory as in claim 110, wherein said event message is delivered to said intended recipient through a multiplexing recipient.

112. (New) A memory as in claim 111, wherein said multiplexing recipient further performs the steps of:

storing said event message in said multiplexing recipient's persistent memory until said event message is handled by said multiplexing recipient; and
deleting said event message from said multiplexing recipient's persistent memory after said event message is handled by said multiplexing recipient.

113. (New) A memory as in claim 110, wherein said intended recipient sends a confirmation to said system after delivery of said event message to said intended recipient.

114. (New) A memory as in claim 107, wherein storing said event message in said persistent memory further comprises storing said event message in an event indication queue, said event indication queue having resources pre-allocated before occurrence of an event associated with said event message.

115. (New) A memory as in claims 114, wherein said event indication queue is reliable even when said event message indicates that allocation of new resources is unstable.